

Emerald[™] HD 2

Emerald HD 2 is a clear, heavy duty, mildly alkaline, low foam, general-purpose maintenance cleaner intended for industrial and institutional cleaning tasks. The product is water soluble, non-flammable and free of petroleum and chlorinated solvents, caustics, borates, and phosphates. Emerald HD 2 is formulated with a biodegradable surfactant system derived from sustainable resources offering superior wetting, emulsification, and dispersion. Because of its unique formulation, Emerald HD 2 will clean a variety of oils, fats, and particulate soils.

Emerald HD 2 has been recognized by the US Environmental Protection Agency's (EPA) Design for the Environment Program (DfE) as offering improved health and environmental characteristics.

Wetting agents are	Recognized by US EPA/DfE for
derived from sustainable	improved health, safety &
sources and are	environmental qualities
biodegradable	
High detergency	Good particulate soil removal
	characteristics
Contains no chelating	Emulsifies most oils
agents	

Features & Benefits

Typical Applications

- Floor cleaning in manufacturing plants
- Machinery cleaning; stamping, drawing, milling, etc.
- Glass cleaning
- General maintenance cleaning
- Transportation cleaning
- Steam cleaning

Operating Conditions

How and where to use

Emerald HD 2 may be used as a spray on, wipe or brush-on cleaner, or as a soak cleaner. It is not recommended for use in helical spray or turbo washers, as foam levels may be



Product Name: Emerald HD 2 Product Code: 2052092 Revision Date: January 9, 2024

excessive. Emerald IC P 1 should be considered when a lower foaming product is required for use in these industrial parts cleaning applications.

Floor cleaning in floor scrubbing machines dilute 1-part Emerald HD 2 with 15 to 20 parts water.

<u>Light soils on painted surfaces</u>, dilute 1-part Emerald HD 2 with 10 to 19 parts water, spray or wipe on then rinse or wipe off with clean cloth. For heavier dirt, dilute 1 part to 5 parts of water.

<u>Machinery cleaning</u> dilute 1-part Emerald HD 2 with 1 to 4 parts for light oil and soils, spray or wipe on then rinse or wipe off with a clean cloth. For heavy oil and soil removal, dilute 1 to 1.

<u>Soak tank cleaning</u> of clean metal parts, tools, filters, etc. use at 10% to 20% by volume. Heating solution (up to 180°F) will speed cleaning. Most metals are not harmed when using the dilutions recommended above. Emerald HD 2 is not recommended for use on aluminum substrates at elevated temperatures.

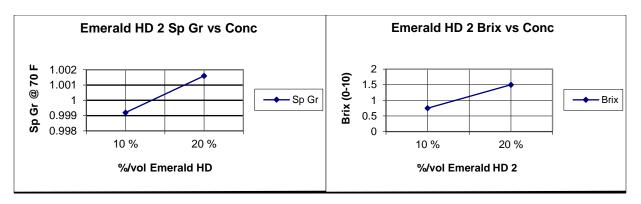
Steam cleaning dilute 1-part Emerald HD 2 with 50 to 99 parts water.

Glass cleaning use at 0.5 to 1.0 % by volume (1 to 2 fluid ounces per gallon).

<u>Transportation cleaning</u>, for heavy soils dilute one-part Emerald HD 2 with 20 parts water. For light soils dilute one part with 30 to 50 parts water.

Burnishing / Mass Finishing use at 2 to 4% by volume in water.

Emerald HD is a heavy duty alkaline cleaner. Most surfaces can be safely cleaned with when used as directed. Rinsing or wiping off should be done as quickly as possible. When using on painted surfaces it is always advisable to keep contact times to a minimum.





Waste Disposal

Used solutions and rinse waters should be discharged to a permitted wastewater treatment system in accordance with all applicable local, state and federal environmental regulations.

Caution

Emerald HD 2 is a mildly alkaline material so always wear goggles, rubber gloves and protective clothing when working with the product. It is important to read and understand the material safety data sheet prior to working with Emerald HD 2.

WARRANTY: HUBBARD-HALL INC. IS NOT RESPONSIBLE FOR THE MISUSE, MISAPPLICATION, OR MISHANDLING OF THIS PRODUCT. SEE THE TERMS AND CONDITIONS OF SALE ON OUR WEBSITE FOR ADDITIONAL TERMS AND CONDITIONS CONCERNING OUR PRODUCTS, INCLUDING BUT NOT LIMITED TO, LIMITATIONS AND DISCLAIMERS OF WARRANTIES AND LIABILITIES.

Our People. Your Problem Solvers.

For more information on this process, please call us at 203.756.5521 or email: <u>techservice@hubbardhall.com</u>

Hubbard-Hall holds certifications for **ISO 9001:2015**, Responsible Distribution, as accredited by the **ACD** (Alliance for Chemical Distributors) and as a **Women-Owned Small Business**, as well as maintaining an association with **Omni-Chem**¹³⁶.